8-2007

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	ENGLOSONES (CHECK all that a	After Allowance Communicati	tion to
	ENCLOSURES (check all that a	anniu)	
Total Number of Pages in This Submission	Attorney Docket Nun	nber 9319A-001729/NP	
	Examiner Name	To be assigned	
(to be used for all correspondence after initial fili	Art Unit	2811	
	First Named Inventor	Masayasu MIYATA	
TRANSMITTAL FORM	Filing Date	June 16, 2006	
TDANGMITTAL	Application Number	10/583,180	

1 7 2007

ENCLOSURES (check all that apply)					
Fee Transmittal F	orm	☐ Drawing(s)			ance Communication to y Center (TC)
Fee Attached		Licensing-re	elated Papers		mmunication to Board of nd Interferences
Amendment / Rep	oly	Petition			mmunication to TC tice, Brief, Reply Brief)
After Final		Petition to (Provisional		Proprietary	Information
Affidavits/decl	aration(s)		ttorney, Revocation Correspondence Address	Status Lett	er
Extension of Time	Request	Terminal Di	sclaimer	Other Enc	
Express Abandon	ment Request	Request for Refund CD, Number of CD(s)			1449 with 14 attached nces, and return receipt ard
Information Disclo	sure Statement	Landscape Table on CD		-	
Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53		Remarks	fees that may be requi	ed under 37 CF	d to charge any additional R 1.16 or 1.17 to Deposit y of this sheet is enclosed.
	SIGNA	TURE OF APP	LICANT, ATTORNEY, OI	RAGENT	
Firm or Individual name Harness, Dickey & Pie			Attorney Name Reg. No. G. Gregory Schivley 27,382 Bryant E. Wade 40,344		2
Signature	Mark 1.	helast	E		
Date	August 17, 2007				
	C	ERTIFICATE O	OF TRANSMISSION/MAIL	ING	

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

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Signature	South have	Date	August 17, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, process) an application: Confidentially is governed by 30 cs.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

AUG 1 7 2007

10/583,180

Filing Date:

June 16, 2006

Applicant:

Masayasu MIYATA

Group Art Unit:

2811

Examiner:

To be assigned

Title:

SEMICONDUCTOR DEVICE, AN ELECTRONIC DEVICE AND

AN ELECTRONIC APPARATUS

Attorney Docket:

9319A-001729/NP

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated

	October 19, 2004); and (iv) all other informatio be listed.	n or that portion which caused it to
	B. Any patents, publications or other info 1449 or on the copies of PTO-892, but which previously cited by or submitted to the PTO is which has been relied upon for an earlier filing	n are not enclosed herewith, were n one of the following applications
	U.S. Serial Number	U.S. Filing Date
	C. This is a PCT application in the entry of States. A copy of the International Search Reinformation. The documents listed on the Inton the attached Form 1449 for consideration any patent resulting from this application. If the from the US, EPO, or JPO search authorities, have been supplied to the USPTO under believed to be in the file of the above-identified.	port is attached for the Examiner's ernational Search report are listed by the Examiner and for listing on the International Search report was copies of these references should the trilateral agreement and are
III.	CONCISE EXPLANATION OF THE RELEVAN	ICE (check <u>at least</u> one box)
	A. Except as may be indicated below in (B other information are in the English language (
	B. A concise explanation of the relevance information listed that is not in the English lan § 1.98(a)(3)):	
	1. See the attached foreign patent related foreign application in:	office communication regarding a
	2. English translations are provident attached Form 1449.	led as follows: As indicated on
	3. Other: JP2003-335791 correspon corresponds to US6,548,426; JP2000-1508/JP2003-297814 corresponds to US2003-1859 to US5,972,765.	03 corresponds to US6,323,098;
	C. The following additional information consideration:	is provided for the Examiner's
IV.	CROSS REFERENCE TO RELATED APPLICA	ATION(S)

conta bring	ain(s) subject matter th ing this(these) applicati	at may be related to t	g co-pending application(s) he present application. By attention, Applicant(s) does S.C. § 122.
	Serial No.	Filing Date	Inventor(s)
<u>THIS</u>	IDS IS BEING FILED U	JNDER	
A. 🖂	37 C.F.R. § 1.97(b): (c	check <u>only</u> one box)	
	than a continued pro		a national application other der § 1.53(d) (37 C.F.R. §
		international application	of the national stage as set (37 C.F.R. § 1.97(b)(2)). No
	1.97(b)(3)). No fee of Office Action on the under 37 C.F.R. § 1 1.97(e) below; or, if	or certification is require merits has been issue .97(c) and see the cer no certification has bee	n on the merits (37 C.F.R. § ed. In the event that a first d, please consider this IDS tification under 37 C.F.R. § n made, charge our deposit quired by 37 C.F.R. § 1.17(p)
		•	n after the filing of a request 1.114. No fee or certification
В. [_] 37 C.F.R. § 1.97(c): (c	check <u>only</u> one box)	
	_	lowance under 37 C.F.F	ice Action under 37 C.F.R. § R. § 1.311, or an action that
	1. No certification; by 37 C.F.R. § 1.17(p		mount of \$180.00 is required
	2. See the certification	ation below. No fee is re	quired.
C. [] 37 C.F.R. § 1.97(d):		

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after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee. 1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box) The undersigned hereby certifies that: A. \(\) each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII. if applicable; or B. \(\square\) no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37) C.F.R. § 1.97(e)(2)). C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. VII. STATEMENT UNDER 37 C.F.R. 1.704(d) The undersigned hereby states that: number = each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS. VIII. PAYMENT OF FEES (check only one box, if applicable)

A.	heck in the amo	ount of \$180.00	is enclosed f	for the above	e-identified fee.
	ase charge De		o. 50-3213 i	n the amou	nt of \$180.00 for

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 50-3213 (Epson R&D).

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-3213 (Epson R&D).

Dated: August 17, 2007

Respectfully submitted.

6. Gregory Schivley Reg. No. 27,382

Bryant E. Wade Reg. No. 40,344

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

[GGS/BEW/pvd]



FORM HDR Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET No.	SERIAL NO.		
9319A-001729/NP	10/583,180		
APPLICANT			
Masayasu MIYATA			
FILING DATE	GROUP		
June 16, 2006	2811		

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		5,972,765	10/26/1999	Clark et al.		
2.		6,548,426	04/15/2003	Suzuki et al.		
3.		2003/185980	10/02/2003	Endo		
4.		6,774,038	08/10/2004	Rhee et al.		
5.		6,323,098	11/27/2007	Ogata et al.		

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	* No
1.		10-223628	08/21/1998	Japan		Abstract	
2.		11-87712	03/30/1999	Japan			Х
3.		2000-150803	05/30/2000	Japan			Х
4.		2001-77105	03/23/2001	Japan			Х
5.		2001-148381	05/29/2001	Japan		Abstract	
6.		2002-53960	02/19/2002	Japan		Abstract	
7.		2002-343800	11/29/2002	Japan		Abstract	
8.		2003-297814	10/17/2003	Japan			X
9.		2003-335791	11/28/2003	Japan			Х
10.		2003-347297	12/05/2003	Japan		Abstract	

Examiner: Date Considered:	
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FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET No.	SERIAL NO.			
9319A-001729/NP	10/583,180			
APPLICANT				
Masayasu MIYATA				
FILING DATE	GROUP			
June 16, 2006	2811			

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
Ref. Desig.	Examiner's Initials						
1.		G. D. Wilk et. al., 'Stable zirconium silicate gate dielectrics deposited directly on silicon', Allied Physics Letters, Volume 76, Number 1, January 3, 2000.					
2.		M. Quevedo-Lopez et. al., 'Hafnium interdiffusion studies from hafnium silicate into silicon', Applied Physics Letters, Volume 79, Number 25, 17 December 2001.					
3.		G. D. Wilk et al., 'Electrical properties of hafnium silicate gate dielectrics deposited directly on silicon', Applied Physics Letters, Volume 74, Number 19, 10 May 1999.					
4.		Shin-ichi Saito et. al., 'Inversion Electron Mobility Affected by Phase Separation in High- Permittivity Gate Dielectrics', Jpn. J. Appl. Phys., Vol. 42 (2003) pp. L1425-L1428, Part 2,					
		No. 12A, 1 December 2003.'					

*One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at www.ipo.go.ip

Examiner:	Date Considered: